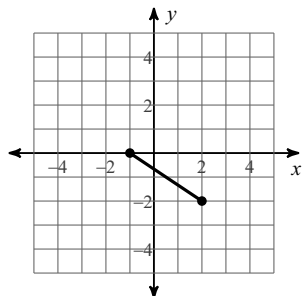


Distance Formula & Pythagorean Theorem

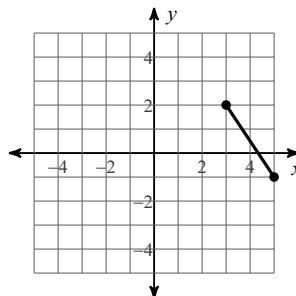
Date _____ Period _____

Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

1)



2)



3) $(-1, 6)$, $(7, 0)$

4) $(-7, -2)$, $(-3, 2)$

5) $(-6, 8)$, $(2, 2)$

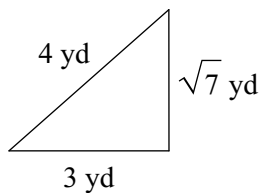
6) $(0, -1)$, $(-5, 1)$

7) $(-8, -4)$, $(7, 5)$

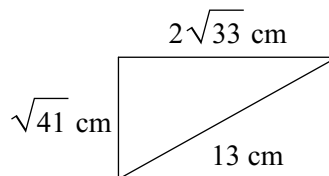
8) $(0, 8)$, $(3, 7)$

State if each triangle is a right triangle.

9)

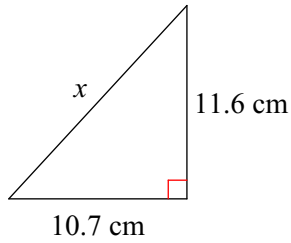


10)

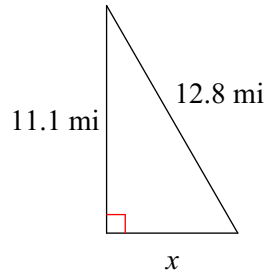


Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

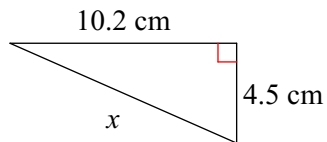
11)



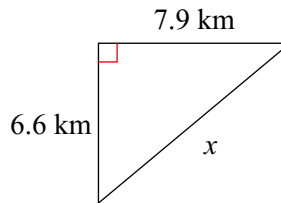
12)



13)



14)



Solve each equation.

15) $-180 = -5(8 + 4r)$

16) $-195 = -5(7 - 5b) + 7b$

17) $120 = 6p + 6(p + 4)$

18) $251 = -2x + 5(-5x + 7)$

Answers to Distance Formula & Pythagorean Theorem (ID: 1)

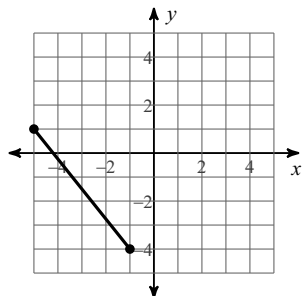
- | | | | |
|-------------|--------------|-------------|--------------|
| 1) 3.6 | 2) 3.6 | 3) 10 | 4) 5.7 |
| 5) 10 | 6) 5.4 | 7) 17.5 | 8) 3.2 |
| 9) Yes | 10) No | 11) 15.8 cm | 12) 6.4 mi |
| 13) 11.1 cm | 14) 10.3 km | 15) $\{7\}$ | 16) $\{-5\}$ |
| 17) $\{8\}$ | 18) $\{-8\}$ | | |

Distance Formula & Pythagorean Theorem

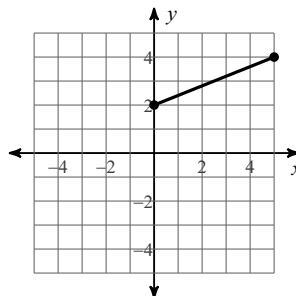
Date _____ Period _____

Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

1)



2)



3) $(-2, 4)$, $(5, 3)$

4) $(-1, -6)$, $(-6, 6)$

5) $(2, -8)$, $(-4, -7)$

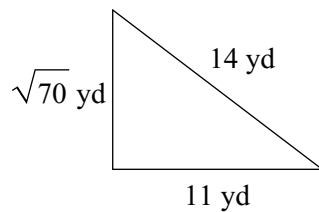
6) $(8, -1)$, $(-8, 6)$

7) $(4, 2)$, $(-5, -6)$

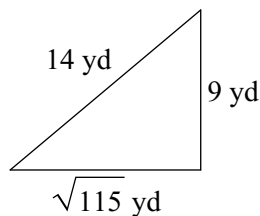
8) $(-4, -4)$, $(-4, -6)$

State if each triangle is a right triangle.

9)

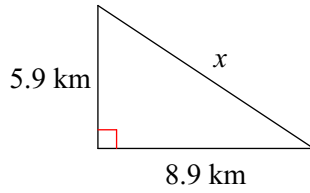


10)

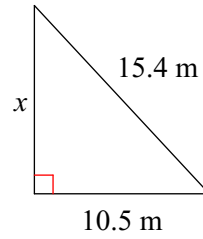


Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

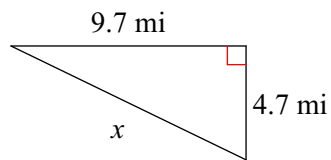
11)



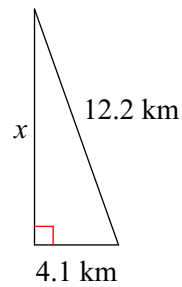
12)



13)



14)



Solve each equation.

15) $-102 = 3(5n + 1)$

16) $98 = 7(8 + k)$

17) $90 = 5x - 3(-3x - 2)$

18) $8(1 - 8n) = -312$

Answers to Distance Formula & Pythagorean Theorem (ID: 2)

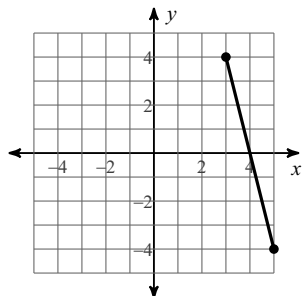
- | | | | |
|-------------|-------------|--------------|-------------|
| 1) 6.4 | 2) 5.4 | 3) 7.1 | 4) 13 |
| 5) 6.1 | 6) 17.5 | 7) 12 | 8) 2 |
| 9) No | 10) Yes | 11) 10.7 km | 12) 11.3 m |
| 13) 10.8 mi | 14) 11.5 km | 15) $\{-7\}$ | 16) $\{6\}$ |
| 17) $\{6\}$ | 18) $\{5\}$ | | |

Distance Formula & Pythagorean Theorem

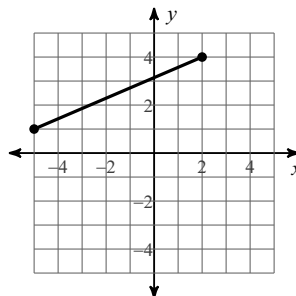
Date _____ Period _____

Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

1)

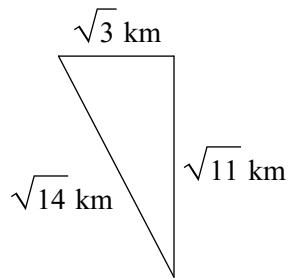


2)

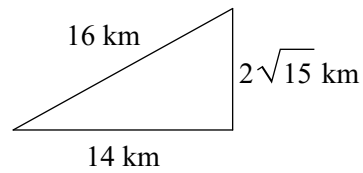
3) $(-3, 4)$, $(-1, 6)$ 4) $(2, 2)$, $(-4, -6)$ 5) $(-2, 7)$, $(-4, -3)$ 6) $(-2, -8)$, $(4, -5)$ 7) $(1, 6)$, $(3, -7)$ 8) $(-7, -2)$, $(4, -7)$

State if each triangle is a right triangle.

9)

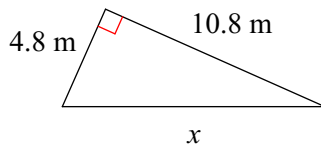


10)

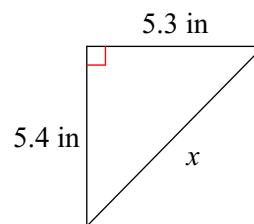


Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

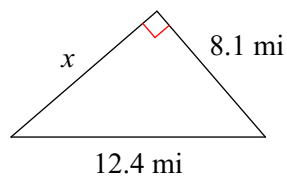
11)



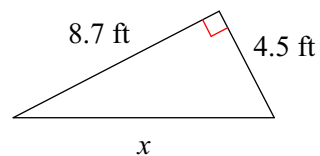
12)



13)



14)



Solve each equation.

15) $215 = -1 - 6(4m - 4)$

16) $110 = 8k + 6(k + 2)$

17) $-6(2 + 8m) = -252$

18) $140 = 7 + 7(3x - 2)$

Answers to Distance Formula & Pythagorean Theorem (ID: 3)

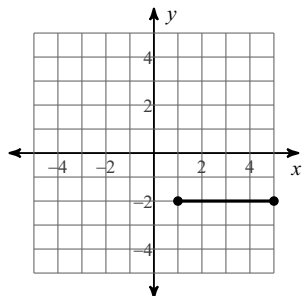
- | | | | |
|-------------|-------------|--------------|-------------|
| 1) 8.2 | 2) 7.6 | 3) 2.8 | 4) 10 |
| 5) 10.2 | 6) 6.7 | 7) 13.2 | 8) 12.1 |
| 9) Yes | 10) Yes | 11) 11.8 m | 12) 7.6 in |
| 13) 9.4 mi | 14) 9.8 ft | 15) $\{-8\}$ | 16) $\{7\}$ |
| 17) $\{5\}$ | 18) $\{7\}$ | | |

Distance Formula & Pythagorean Theorem

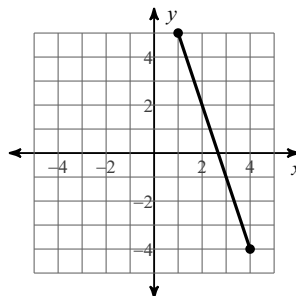
Date _____ Period _____

Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

1)



2)



3) $(3, -1)$, $(-6, 2)$

4) $(-1, -7)$, $(-1, 0)$

5) $(-7, 8)$, $(-7, 8)$

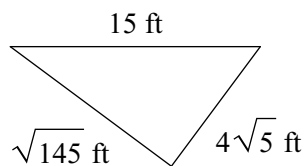
6) $(2, 8)$, $(0, 5)$

7) $(-5, -5)$, $(-1, 0)$

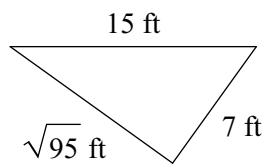
8) $(3, 1)$, $(7, -1)$

State if each triangle is a right triangle.

9)

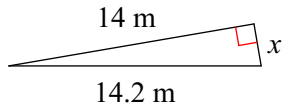


10)

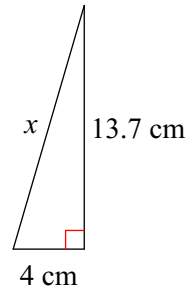


Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

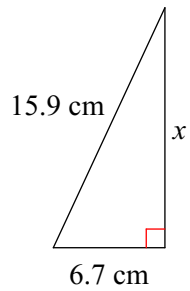
11)



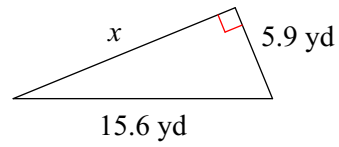
12)



13)



14)



Solve each equation.

15) $-99 = -3(5a + 3)$

16) $3(3 - 5x) = 99$

17) $-110 = -5(6 + 2x)$

18) $2(6b + 2) = 88$

Answers to Distance Formula & Pythagorean Theorem (ID: 4)

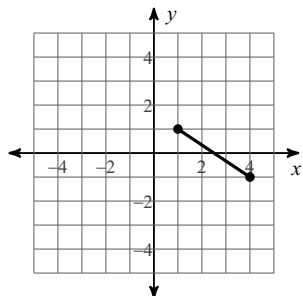
- | | | | |
|-------------|-------------|-------------|--------------|
| 1) 4 | 2) 9.5 | 3) 9.5 | 4) 7 |
| 5) 0 | 6) 3.6 | 7) 6.4 | 8) 4.5 |
| 9) Yes | 10) No | 11) 2.4 m | 12) 14.3 cm |
| 13) 14.4 cm | 14) 14.4 yd | 15) $\{6\}$ | 16) $\{-6\}$ |
| 17) $\{8\}$ | 18) $\{7\}$ | | |

Distance Formula & Pythagorean Theorem

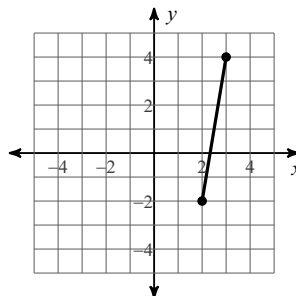
Date _____ Period _____

Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

1)



2)



3) $(4, -2)$, $(8, 4)$

4) $(6, -4)$, $(-5, -8)$

5) $(1, 1)$, $(-6, -7)$

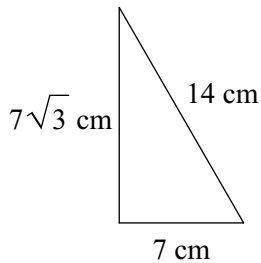
6) $(6, -3)$, $(-2, -4)$

7) $(-1, -4)$, $(3, -4)$

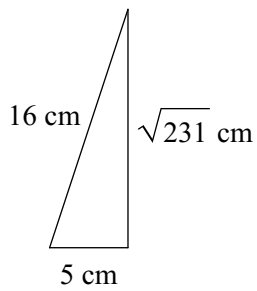
8) $(3, 1)$, $(2, -3)$

State if each triangle is a right triangle.

9)

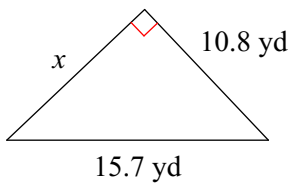


10)

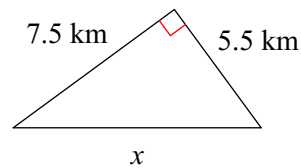


Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

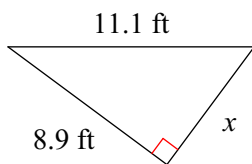
11)



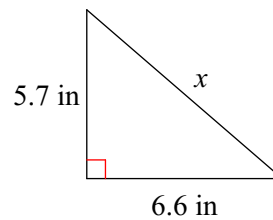
12)



13)



14)



Solve each equation.

15) $-133 = 7(2x - 5)$

16) $-90 = -6(x + 8)$

17) $2(8 - 6n) - 4n = -96$

18) $-82 = 2 + 3(7x + 7)$

Answers to Distance Formula & Pythagorean Theorem (ID: 5)

- | | | | |
|-------------|--------------|--------------|-------------|
| 1) 3.6 | 2) 6.1 | 3) 7.2 | 4) 11.7 |
| 5) 10.6 | 6) 8.1 | 7) 4 | 8) 4.1 |
| 9) Yes | 10) Yes | 11) 11.4 yd | 12) 9.3 km |
| 13) 6.6 ft | 14) 8.7 in | 15) $\{-7\}$ | 16) $\{7\}$ |
| 17) $\{7\}$ | 18) $\{-5\}$ | | |